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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/986,967	11/13/2001	Arun Raghavendra Desai	95-472	6367
23164	7590	04/15/2005	EXAMINER	
LEON R TURKEVICH 2000 M STREET NW 7TH FLOOR WASHINGTON, DC 200363307			TRAN, NGHI V	
			ART UNIT	PAPER NUMBER
			2151	

DATE MAILED: 04/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/986,967

Applicant(s)

DESAI, ARUN RAGHAVENDRA

Examiner

Nghi V Tran

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 November 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-38 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-38 are rejected under 35 U.S.C. 102(e) as being anticipated by Schloss et al., U.S. Patent No. 6,249,844 (hereinafter Schloss).

3. With respect to claims 1 and 20, Schloss teaches a method of providing content to a device [col. 3, Ins.60-67 i.e. provide caching of frequently access Web object to improve client access time] according to Hypertext Transport Protocol (HTTP) [see abstract and figs.1-7], the method comprising:

- receiving an HTTP request for a first content object [col.2, Ins.33-42 i.e. a first content object is interpreted as digital object including web pages XML, SGML and HTML];
- identifying a content operation identifier [col.4, Ins.45-49 and col.5, Ins.54-65 i.e. recognized as persistent fragments with the identity indicating the

reference to the fragment] that identifies a corresponding second content object [i.e. object fragment] determined as relevant to the first content object [col.4, Ins.39-45];

- sending to the device an HTTP respond to the HTTP request [step 730 and col.6, Ins.41-43], the HTTP response including the first content object and the content operation identifier, enabling the device to perform a content operation associated with second content objects based on receipt of the content operation identifier [col.3, Ins.13-32].

4. With respect to claims 2 and 21, Schloss further teaches the identifying the step includes retrieving, based on retrieval of a first stored file [i.e. content server] containing the first content object, a second stored file [270 i.e. fragment cache] associated with the first stored file and containing the content operation identifier [col.5, ln.36 - col.6, ln.30].

5. With respect to claims 3, 8, 22, and 27, Schloss further teaches the sending step includes adding to the first content object a content operation tag [figs.3-4 i.e. a content operation is interpreted as <include>] that specifies the content operation identifier including a directive tag [330 i.e. HREF statement to reference the persistent fragment] specifying the corresponding content operation to be performed by the device and an object identifier [i.e. "125.1" and "28.3"] that specifies a location of second content object [col.5, ln.36 - col.6, ln.30 i.e. indicating the reference to the fragment].

6. With respect to claims 4, 9, 23, and 28, Schloss further teaches the first content object is a Hypertext Markup Language (HTML) document [col.2, Ins.15-18], the adding step including inline prepending the content operation tag from the second stored file into the HTML document [col.2, ln.33 - col.3, ln.32].

7. With respect to claims 5, 10, 24, and 29, Schloss further teaches the directive tag specifies one of at least prefetching, and purging from a cache [i.e. reference to the fragment], the second content object [fig.5; col.5, Ins.53 - col.6, ln.15; and col.7, Ins.39-3].

8. With respect to claims 6, 11, 25, and 30, Schloss further teaches the sending step includes inserting into the HTTP response at least one extensible HTTP header [figs.3-4 i.e. XML] that specifies the content operation identifier including a directive [330 i.e. HREF statement to reference the persistent fragment] that identifies the corresponding content operation to be performed by the device and an object identifier that specified a location of the second content object [col.4, Ins.22-52 and col.5, ln.36 - col.6, ln.30 i.e. indicating the reference to the fragment].

9. With respect to claims 7, 12, 26, and 31, Schloss further teaches the directive, retrieved with the content operation identifier from the second stored file [i.e. indicating the reference to the fragment with identity], specifies at least one of prefetching and

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purging the selected content object [fig.5; col.5, Ins.53 - col.6, ln.15; and col.7, ln.39 - col.8, ln.3].

10. With respect to claims 13 and 32, Schloss teaches a method of retrieving content for a device according to Hypertext Transport Protocol [see abstract and figs.1-5], the method comprising:

- first sending an HTTP request for a first content object [col.2, Ins.33-42 i.e. a first content object is interpreted as digital object including web pages XML, SGML and HTML], received from the device, to a destination server [i.e. content server] specified by the HTTP request [205 i.e. object request handler];
- receiving from the destination server an HTTP response to the HTTP request [col.6, Ins.31-41] that includes the first content object and a content operation identifier [i.e. "125.1" and "28.3"] that specifies an operation [i.e. reference] to be performed on an identified second content object [col.4, Ins.39-49 and col.5, Ins.54-65 i.e. <include HREF="125.1"> is indicating the reference to the fragment "125.1"];
- second sending the first content object to the device [col.6, Ins.42-43]; and
- executing the operation on the second content object in response to the content operation identifier [col.7, Ins.39-35 i.e. mapped into a number which corresponds to an entry of the fragment description table].

11. With respect to claims 14 and 33, Schloss further teaches the executing step including:

- detecting the content operation identifier based on parsing HTTP response [col.6, ln.57 - col.7, ln.38 i.e. object parser]; and
- accessing the identified second content object for execution of the operation [col.5, ln.53 - col.6, ln.15 i.e. each of the persistent fragments is replaced with an "include" statement referring to the name of the fragment].

12. With respect to claims 15 and 34, Schloss further teaches the detecting step includes parsing a markup language document within the HTTP response [col.6, ln.31-67 i.e. the object description, which many have been modified by the object parser, is sent back to the requester] and containing the first content object and the content operation identifier, the content operation identifier including a directive tag [i.e. <include HREF="125.1">] specifying the corresponding operation and an object identifier [330 i.e. HREF statement to reference the persistent fragment with the identities such as "125.1" and "28.3"] specifying a location of the second content object [col.2, ln.33 - col.3, ln.32; col.4, lns.22-52; and col.5, ln.36 - col.6, ln.30].

13. With respect to claims 16 and 35, Schloss further teaches the parsing step includes detecting the directive tag [i.e. <include HREF="125.1">] as an Hypertext Markup Language (HTML) tag inline prepended to an HTML document specifying the first content object [col.2, ln.33 - col.3, ln.32].

14. With respect to claims 17 and 36, Schloss further teaches the accessing step includes one of at least prefetching, and purging from a cache [i.e. reference to the fragment], the second content object, based on the directive tag [fig.5; col.5, Ins.53 - col.6, ln.15; and col.7, Ins.39-3].

15. With respect to claims 18 and 37, Schloss further teaches the parsing step includes parsing [i.e. recognized and extracted] the content operation identifier [col.5, Ins.53-65 i.e. each of the persistent fragments is replaced with an "include"] from an HTTP header [i.e. <include>] within the HTTP response [col.6, Ins.41-43], the content operation identifier including a directive [i.e. HREF indicating the reference to the fragment] specifying the corresponding operation and an object identifier specifying a location of the second content object [col.5, ln.36 - col.6, ln.30].

16. With respect to claims 19 and 38, Schloss further teaches the accessing step includes one of at least prefetching, and purging from a cache [i.e. indicating the reference to the fragment with identity], the second content object, based on the directive [fig.5; col.5, Ins.53 - col.6, ln.15; and col.7, ln.39 - col.8, ln.3].

Conclusion

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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a. "System, method, apparatus and article of manufacture for identity-based caching (#15)," by Herriot, U.S. Patent No. 6,154,742.

b. "Network object cache engine," by MALCOLM et al., U.S. Patent Application Publication No. 2002/0004917.

c. "Optimized caching of SQL data in an object server system," by Attaluri et al., U.S. Patent No. 5,897,634.

d. "Caching dynamic content," by Craig et al., U.S. Patent No. 6,757,708.

e. "Determining how changes to underlying data affect cached objects," by Challenger et al., U.S. Patent No. 6,026,413.

f. "Performance optimizations for computer networks utilizing http," by Bhide et al., U.S. Patent No. 5,852,717.

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nghi V Tran whose telephone number is (571) 272-4067. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on (571) 272-3939. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nghi V Tran
Patent Examiner
Art Unit 2151

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SUPERVISORY PATENT EXAMINER